



Sequence Listing

<110> Ashkenazi, Avi J.
Gurney, Austin

<120> RTD Receptor

<130> P1129R1 (REVISED)

<140> US 09/114,844
<141> 1998-07-14

<150> US 60/056,974
<151> 1997-08-26

<160> 10

<210> 1
<211> 386
<212> PRT
<213> Homo sapiens

<220>
<221> unsure
<222> 310
<223> Xaa may be serine or leucine

<400> 1
Met Gly Leu Trp Gly Gln Ser Val Pro Thr Ala Ser Ser Ala Arg
1 5 10 15
Ala Gly Arg Tyr Pro Gly Ala Arg Thr Ala Ser Gly Thr Arg Pro
20 25 30
Trp Leu Leu Asp Pro Lys Ile Leu Lys Phe Val Val Phe Ile Val
35 40 45
Ala Val Leu Leu Pro Val Arg Val Asp Ser Ala Thr Ile Pro Arg
50 55 60
Gln Asp Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Arg
65 70 75
Arg Ser Leu Lys Glu Glu Glu Cys Pro Ala Gly Ser His Arg Ser
80 85 90
Glu Tyr Thr Gly Ala Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr
95 100 105
Thr Ile Ala Ser Asn Asn Leu Pro Ser Cys Leu Leu Cys Thr Val
110 115 120
Cys Lys Ser Gly Gln Thr Asn Lys Ser Ser Cys Thr Thr Arg
125 130 135
Asp Thr Val Cys Gln Cys Glu Lys Gly Ser Phe Gln Asp Lys Asn
140 145 150

Ser Pro Glu Met Cys Arg Thr Cys Arg Thr Gly Cys Pro Arg Gly
 155 160 165
 Met Val Lys Val Ser Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys
 170 175 180
 Lys Asn Glu Ser Ala Ala Ser Ser Thr Gly Lys Thr Pro Ala Ala
 185 190 195
 Glu Glu Thr Val Thr Thr Ile Leu Gly Met Leu Ala Ser Pro Tyr
 200 205 210
 His Tyr Leu Ile Ile Ile Val Val Leu Val Ile Ile Leu Ala Val
 215 220 225
 Val Val Val Gly Phe Ser Cys Arg Lys Lys Phe Ile Ser Tyr Leu
 230 235 240
 Lys Gly Ile Cys Ser Gly Gly Gly Gly Pro Glu Arg Val His
 245 250 255
 Arg Val Leu Phe Arg Arg Arg Ser Cys Pro Ser Arg Val Pro Gly
 260 265 270
 Ala Glu Asp Asn Ala Arg Asn Glu Thr Leu Ser Asn Arg Tyr Leu
 275 280 285
 Gln Pro Thr Gln Val Ser Glu Gln Glu Ile Gln Gly Gln Glu Leu
 290 295 300
 Ala Glu Leu Thr Gly Val Thr Val Glu Xaa Pro Glu Glu Pro Gln
 305 310 315
 Arg Leu Leu Glu Gln Ala Glu Ala Glu Gly Cys Gln Arg Arg Arg
 320 325 330
 Leu Leu Val Pro Val Asn Asp Ala Asp Ser Ala Asp Ile Ser Thr
 335 340 345
 Leu Leu Asp Ala Ser Ala Thr Leu Glu Glu Gly His Ala Lys Glu
 350 355 360
 Thr Ile Gln Asp Gln Leu Val Gly Ser Glu Lys Leu Phe Tyr Glu
 365 370 375
 Glu Asp Glu Ala Gly Ser Ala Thr Ser Cys Leu
 380 385

<210> 2
 <211> 2082
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 1085
 <223> Y may be cytosine, thymine or uracil

<400> 2
 ccaactgcac ctcggttcta tcgattgaat tccccggga tcctctagag 50
 atccctcgac ctcgacccac gcgtccggaa cctttgcacg cgcacaaact 100
 acggggacga tttctgattg atttttggcg ctttcgatcc accctcctcc 150
 cttctc atg gga ctt tgg gga caa agc gtc ccg acc gcc 189
 Met Gly Leu Trp Gly Gln Ser Val Pro Thr Ala
 1 5 10
 tcg agc gct cga gca ggg cgc tat cca gga gcc agg aca 228
 Ser Ser Ala Arg Ala Gly Arg Tyr Pro Gly Ala Arg Thr
 15 20
 gcg tcg gga acc aga cca tgg ctc ctg gac ccc aag atc 267
 Ala Ser Gly Thr Arg Pro Trp Leu Leu Asp Pro Lys Ile
 25 30 35
 ctt aag ttc gtc gtc ttc atc gtc gcg gtt ctg ctg ccg 306
 Leu Lys Phe Val Val Phe Ile Val Ala Val Leu Leu Pro
 40 45 50
 gtc cgg gtt gac tct gcc acc atc ccc cgg cag gac gaa 345
 Val Arg Val Asp Ser Ala Thr Ile Pro Arg Gln Asp Glu
 55 60
 gtt ccc cag cag aca gtg gcc cca cag caa cag agg cgc 384
 Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln Arg Arg
 65 70 75
 agc ctc aag gag gag tgc aca gca gga tct cat aga 423
 Ser Leu Lys Glu Glu Cys Pro Ala Gly Ser His Arg
 80 85
 tca gaa tat act gga gcc tgc aac ccg tgc aca gag ggt 462
 Ser Glu Tyr Thr Gly Ala Cys Asn Pro Cys Thr Glu Gly
 90 95 100
 gtg gat tac acc att gct tcc aac aat ttg cct tct tgc 501
 Val Asp Tyr Thr Ile Ala Ser Asn Asn Leu Pro Ser Cys
 105 110 115
 ctg cta tgt aca gtt tgt aaa tca ggt caa aca aat aaa 540
 Leu Leu Cys Thr Val Cys Lys Ser Gly Gln Thr Asn Lys
 120 125
 agt tcc tgt acc acg acc aga gac acc gtg tgt cag tgt 579
 Ser Ser Cys Thr Thr Arg Asp Thr Val Cys Gln Cys
 130 135 140
 gaa aaa gga agc ttc cag gat aaa aac tcc cct gag atg 618
 Glu Lys Gly Ser Phe Gln Asp Lys Asn Ser Pro Glu Met
 145 150
 tgc cgg acg tgt aga aca ggg tgt ccc aga ggg atg gtc 657
 Cys Arg Thr Cys Arg Thr Gly Cys Pro Arg Gly Met Val
 155 160 165

aag gtc agt aat tgt acg ccc cgg agt gac atc aag tgc 696
Lys Val Ser Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys
170 175 180

aaa aat gaa tca gct gcc agt tcc act ggg aaa acc cca 735
Lys Asn Glu Ser Ala Ala Ser Ser Thr Gly Lys Thr Pro
185 190

gca gcg gag gag aca gtg acc acc atc ctg ggg atg ctt 774
Ala Ala Glu Glu Thr Val Thr Thr Ile Leu Gly Met Leu
195 200 205

gcc tct ccc tat cac tac ctt atc atc ata gtg gtt tta 813
Ala Ser Pro Tyr His Tyr Leu Ile Ile Ile Val Val Leu
210 215

gtc atc att tta gct gtg gtt gtg gtt ggc ttt tca tgt 852
Val Ile Ile Leu Ala Val Val Val Val Gly Phe Ser Cys
220 225 230

cgg aag aaa ttc att tct tac ctc aaa ggc atc tgc tca 891
Arg Lys Lys Phe Ile Ser Tyr Leu Lys Gly Ile Cys Ser
235 240 245

ggt ggt gga gga ggt ccc gaa cgt gtg cac aga gtc ctt 930
Gly Gly Gly Gly Pro Glu Arg Val His Arg Val Leu
250 255

ttc cgg cgg cgt tca tgt cct tca cga gtt cct ggg gcg 969
Phe Arg Arg Arg Ser Cys Pro Ser Arg Val Pro Gly Ala
260 265 270

gag gac aat gcc cgc aac gag acc ctg agt aac aga tac 1008
Glu Asp Asn Ala Arg Asn Glu Thr Leu Ser Asn Arg Tyr
275 280

ttg cag ccc acc cag gtc tct gag cag gaa atc caa ggt 1047
Leu Gln Pro Thr Gln Val Ser Glu Gln Glu Ile Gln Gly
285 290 295

cag gag ctg gca gag cta aca ggt gtg act gta gag tyg 1086
Gln Glu Leu Ala Glu Leu Thr Gly Val Thr Val Glu Xaa
300 305 310

cca gag gag cca cag cgt ctg ctg gaa cag gca gaa gct 1125
Pro Glu Glu Pro Gln Arg Leu Leu Glu Gln Ala Glu Ala
315 320

gaa ggg tgt cag agg agg agg ctg ctg gtt cca gtg aat 1164
Glu Gly Cys Gln Arg Arg Leu Leu Val Pro Val Asn
325 330 335

gac gct gac tcc gct gac atc agc acc ttg ctg gat gcc 1203
Asp Ala Asp Ser Ala Asp Ile Ser Thr Leu Leu Asp Ala
340 345

tcg gca aca ctg gaa gga cat gca aag gaa aca att 1242
Ser Ala Thr Leu Glu Glu Gly His Ala Lys Glu Thr Ile
350 355 360

cag gac caa ctg gtg ggc tcc gaa aag ctc ttt tat gaa 1281
Gln Asp Gln Leu Val Gly Ser Glu Lys Leu Phe Tyr Glu
365 370 375

gaa gat gag gca ggc tct gct acg tcc tgc ctg tgaaag 1320
Glu Asp Glu Ala Gly Ser Ala Thr Ser Cys Leu
380 385

aatctttca ggaaaccaga gcttcctca tttaccttt ctcctacaaa 1370

ggaaagcagc ctgaaagaaa cagtcagta ctgcacccat gccccaaacaa 1420

actctactat ccaatatggg gcagcttacc aatggccta gaactttgtt 1470

aacgcacttg gagtaatttt tatgaaatac tgcgtgtat aagcaaacgg 1520

gagaaattta tatcagattc ttggctgcat agttatacga ttgtgttatta 1570

agggtcgtt taggccacat gcggggctc atgcctgtaa tcccgact 1620

ttgataggct gaggcaggtg gattgcttga gctcggagt ttgagaccag 1670

cctcatcaac acagtgaaac tccatctcaa tttaaaaaga aaaaaagtgg 1720

ttttaggatg tcatttttgc cagttttca tcattttttt 1770

tctgcttctt atattgcaag ctccatctct actgggtgtt gcatttaatg 1820

acatctaact acagatgccc cacagccaca atgccttgc ttatagttt 1870

ttaacttttag aacgggatta tcttggattt acctgttattt tcagtttcgg 1920

atatttttgc cttaatgtatg agattatcaa gacgtacccc tatgctaagt 1970

catgagcata tggacttacg agggttcgac ttagagttt gagcttaag 2020

ataggattat tggggctta cccccacctt aattagaaga aacattttat 2070

attgctttac ta 2082

<210> 3

<211> 50

<212> DNA

<213> Artificial sequence

<220>

<223> Sequence is synthesized.

<400> 3

cataaaaagt cctgcaccat gaccagagac acagtgtgtc agtgtaaaga 50

<210> 4

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> Sequence is synthesized.

<400> 4

cttcaggaaa ccagagcttc cctc 24

<210> 5

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> Sequence is synthesized.

<400> 5

ttctcccggt tgcttatacac acgc 24

<210> 6

<211> 191

<212> PRT

<213> Homo sapiens

<400> 6

Gly Arg Gly Ala Leu Pro Thr Ser Met Gly Gln His Gly Pro Ser
1 5 10 15

Ala Arg Ala Arg Ala Gly Arg Ala Pro Gly Pro Arg Pro Ala Arg
20 25 30

Glu Ala Ser Pro Arg Leu Arg Val His Lys Thr Phe Lys Phe Val
35 40 45

Val Val Gly Val Leu Leu Gln Val Val Pro Ser Ser Ala Ala Thr
50 55 60

Ile Lys Leu His Asp Gln Ser Ile Gly Thr Gln Gln Trp Glu His
65 70 75

Ser Pro Leu Gly Glu Leu Cys Pro Pro Gly Ser His Arg Ser Glu
80 85 90

Arg Pro Gly Ala Cys Asn Arg Cys Thr Glu Gly Val Gly Tyr Thr
95 100 105

Asn Ala Ser Asn Asn Leu Phe Ala Cys Leu Pro Cys Thr Ala Cys
110 115 120

Lys Ser Asp Glu Glu Arg Ser Pro Cys Thr Thr Thr Arg Asn
125 130 135

Thr Ala Cys Gln Cys Lys Pro Gly Thr Phe Arg Asn Asp Asn Ser
140 145 150

Ala Glu Met Cys Arg Lys Cys Ser Thr Gly Cys Pro Arg Gly Met
155 160 165

Val Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val
170 175 180

His Lys Glu Ser Gly Asn Gly His Asn Ile Trp
185 190

<210> 7

<211> 193

<212> PRT

<213> Homo sapiens

<400> 7

Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg
1 5 10 15

Lys Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro
20 25 30

Gly Leu Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val
35 40 45

Leu Leu Leu Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp
50 55 60

Leu Ala Pro Gln Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser
65 70 75

Pro Ser Glu Gly Leu Cys Pro Pro Gly His His Ile Ser Glu Asp
80 85 90

Gly Arg Asp Cys Ile Ser Cys Lys Tyr Gly Gln Asp Tyr Ser Thr
95 100 105

His Trp Asn Asp Leu Leu Phe Cys Leu Arg Cys Thr Arg Cys Asp
110 115 120

Ser Gly Glu Val Glu Leu Ser Pro Cys Thr Thr Thr Arg Asn Thr
125 130 135

Val Cys Gln Cys Glu Glu Gly Thr Phe Arg Glu Glu Asp Ser Pro
140 145 150

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val
155 160 165

Lys Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His
170 175 180

Lys Glu Ser Gly Ile Ile Gly Val Thr Val Ala Ala
185 190

<210> 8

<211> 158

<212> PRT

<213> Homo sapiens

<400> 8

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Arg | Ile | Pro | Lys | Thr | Leu | Lys | Phe | Val | Val | Val | Ile | Val |
| 1 | | | | | 5 | | | | 10 | | | | 15 | |
| Ala | Val | Leu | Leu | Pro | Val | Leu | Ala | Tyr | Ser | Ala | Thr | Thr | Ala | Arg |
| | | | | | 20 | | | | 25 | | | | 30 | |
| Gln | Glu | Glu | Val | Pro | Gln | Gln | Thr | Val | Ala | Pro | Gln | Gln | Gln | Arg |
| | | | | | 35 | | | | 40 | | | | 45 | |
| His | Ser | Phe | Lys | Gly | Glu | Glu | Cys | Pro | Ala | Gly | Ser | His | Arg | Ser |
| | | | | | 50 | | | | 55 | | | 60 | | |
| Glu | His | Thr | Gly | Ala | Cys | Asn | Pro | Cys | Thr | Glu | Gly | Val | Asp | Tyr |
| | | | | | 65 | | | | 70 | | | 75 | | |
| Thr | Asn | Ala | Ser | Asn | Asn | Glu | Pro | Ser | Cys | Phe | Pro | Cys | Thr | Val |
| | | | | | 80 | | | | 85 | | | 90 | | |
| Cys | Lys | Ser | Asp | Gln | Lys | His | Lys | Ser | Ser | Cys | Thr | Met | Thr | Arg |
| | | | | | 95 | | | | 100 | | | 105 | | |
| Asp | Thr | Val | Cys | Gln | Cys | Lys | Glu | Gly | Thr | Phe | Arg | Asn | Glu | Asn |
| | | | | | 110 | | | | 115 | | | 120 | | |
| Ser | Pro | Glu | Met | Cys | Arg | Lys | Cys | Ser | Arg | Cys | Pro | Ser | Gly | Glu |
| | | | | | 125 | | | | 130 | | | 135 | | |
| Val | Gln | Val | Ser | Asn | Cys | Thr | Ser | Trp | Asp | Asp | Ile | Gln | Cys | Val |
| | | | | | 140 | | | | 145 | | | 150 | | |
| Glu | Glu | Phe | Gly | Ala | Asn | Ala | Thr | | | | | | | |
| | | | | | 155 | | | | | | | | | |

<210> 9
 <211> 200
 <212> PRT
 <213> Homo sapiens

| | | | | | | | | | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 9 | | | | | | | | | | | | | | |
| Gly | Gly | Asp | Pro | Lys | Cys | Met | Asp | Arg | Val | Cys | Phe | Trp | Arg | Leu |
| 1 | | | | | 5 | | | | 10 | | | 15 | | |
| Gly | Leu | Leu | Arg | Gly | Pro | Gly | Ala | Glu | Asp | Asn | Ala | His | Asn | Glu |
| | | | | | 20 | | | | 25 | | | 30 | | |
| Ile | Leu | Ser | Asn | Ala | Asp | Ser | Leu | Ser | Thr | Phe | Val | Ser | Glu | Gln |
| | | | | | 35 | | | | 40 | | | 45 | | |
| Gln | Met | Glu | Ser | Gln | Glu | Pro | Ala | Asp | Leu | Thr | Gly | Val | Thr | Val |
| | | | | | 50 | | | | 55 | | | 60 | | |
| Gln | Ser | Pro | Gly | Glu | Ala | Gln | Cys | Leu | Leu | Gly | Pro | Ala | Glu | Ala |
| | | | | | 65 | | | | 70 | | | 75 | | |
| Glu | Gly | Ser | Gln | Arg | Arg | Arg | Leu | Leu | Val | Pro | Ala | Asn | Gly | Ala |
| | | | | | 80 | | | | 85 | | | 90 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Pro | Thr | Glu | Thr | Leu | Met | Leu | Phe | Phe | Asp | Lys | Phe | Ala | Asn |
| | | | | | 95 | | | | 100 | | | | 105 | |
| Ile | Val | Pro | Phe | Asp | Ser | Trp | Asp | Gln | Leu | Met | Arg | Gln | Leu | Asp |
| | | | | | 110 | | | 115 | | | | | 120 | |
| Leu | Thr | Lys | Asn | Glu | Ile | Asp | Val | Val | Arg | Ala | Gly | Thr | Ala | Gly |
| | | | | | 125 | | | 130 | | | | | 135 | |
| Pro | Gly | Asp | Ala | Leu | Tyr | Ala | Met | Leu | Met | Lys | Trp | Val | Asn | Lys |
| | | | | | 140 | | | 145 | | | | | 150 | |
| Thr | Gly | Arg | Asn | Ala | Ser | Ile | His | Thr | Leu | Leu | Asp | Ala | Leu | Glu |
| | | | | | 155 | | | 160 | | | | | 165 | |
| Arg | Met | Glu | Glu | Arg | His | Ala | Lys | Glu | Lys | Ile | Gln | Asp | Leu | Leu |
| | | | | | 170 | | | 175 | | | | | 180 | |
| Val | Asp | Ser | Gly | Lys | Phe | Ile | Tyr | Leu | Glu | Asp | Gly | Thr | Gly | Ser |
| | | | | | 185 | | | 190 | | | | | 195 | |
| Ala | Val | Ser | Leu | Glu | | | | | | | | | | |
| | | | | | 200 | | | | | | | | | |

<210> 10
 <211> 202
 <212> PRT
 <213> Homo sapiens

| | | | | | | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 10 | | | | | | | | | | | | | | |
| Lys | Val | Leu | Pro | Tyr | Leu | Lys | Gly | Ile | Cys | Ser | Gly | Gly | Gly | |
| 1 | | | | | 5 | | | | 10 | | | | 15 | |
| Asp | Pro | Glu | Arg | Val | Asp | Arg | Ser | Ser | Gln | Arg | Pro | Gly | Ala | Glu |
| | | | | | 20 | | | 25 | | | | | 30 | |
| Asp | Asn | Val | Leu | Asn | Glu | Ile | Val | Ser | Ile | Leu | Gln | Pro | Thr | Gln |
| | | | | | 35 | | | 40 | | | | | 45 | |
| Val | Pro | Glu | Gln | Glu | Met | Glu | Val | Gln | Glu | Pro | Ala | Glu | Pro | Thr |
| | | | | | 50 | | | 55 | | | | | 60 | |
| Gly | Val | Asn | Met | Leu | Ser | Pro | Gly | Glu | Ser | Glu | His | Leu | Leu | Glu |
| | | | | | 65 | | | 70 | | | | | 75 | |
| Pro | Ala | Glu | Ala | Glu | Arg | Ser | Gln | Arg | Arg | Arg | Leu | Leu | Val | Pro |
| | | | | | 80 | | | 85 | | | | | 90 | |
| Ala | Asn | Glu | Gly | Asp | Pro | Thr | Glu | Thr | Leu | Arg | Gln | Cys | Phe | Asp |
| | | | | | 95 | | | 100 | | | | | 105 | |
| Asp | Phe | Ala | Asp | Leu | Val | Pro | Phe | Asp | Ser | Trp | Glu | Pro | Leu | Met |
| | | | | | 110 | | | 115 | | | | | 120 | |
| Arg | Lys | Leu | Gly | Leu | Met | Asp | Asn | Glu | Ile | Lys | Val | Ala | Lys | Ala |
| | | | | | 125 | | | 130 | | | | | 135 | |

Glu Ala Ala Gly His Arg Asp Thr Leu Tyr Thr Met Leu Ile Lys
140 145 150

Trp Val Asn Lys Thr Gly Arg Asp Ala Ser Val His Thr Leu Leu
155 160 165

Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu Ala Lys Gln Lys Ile
170 175 180

Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met Tyr Leu Glu Gly
185 190 195

Asn Ala Asp Ser Ala Leu Ser
200